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3 **MULTISERVICE NETWORK PROCESSING DEVICE**

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12 **ABSTRACT OF THE DISCLOSURE:**

13 An integrated circuit has a lookup engine, a segmentation engine, and a
14 reassembly engine that can be used in various combinations such that a line card
15 employing the integrated circuit is configurable to: 1) function as an ingress line
16 card receiving data in cell and/or packet format from a network and supplying that
17 data to the switch fabric of a router, or 2) function as an egress line card receiving
18 data from the switch fabric and outputting that data in cell and/or packet format to
19 a network. The switch fabric can be either a cell format switch fabric or a packet
20 format switch fabric.

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